

# Steps to Sharing

ERDO-WG Workshop  
25-26 September 2019  
IAEA, Vienna

COVRA<sub>NV</sub>

Marja Vuorio



# Contents

- ROUTES Task 6.
- IGD-TP: SRA
  - Implementing Geological Disposal of radioactive waste-Technology Platform Strategic research agenda



European Joint Programme  
on Radioactive Waste Management

# Task 6. Shared Solutions in European countries

Waste management routes in Europe from cradle to  
grave (ROUTES)

Marja Vuorio COVRA

Ole Kastbjerg Nielsen DEKOM



*The project leading to this application has received funding from the  
European Union's Horizon 2020 research and innovation programme  
under grant agreement No 847593.*

# Task objectives

- ▶ Describe and assess knowledge on and approaches to sharing competences, methods, technology and facilities between member states
- ▶ Provide an overview of the interest in and experience with sharing in the different steps of waste management
- ▶ Identify gaps and define needs for R&D, strategic priorities and opportunities for collaboration between member states

# Task 6. outcomes and

## ▶ 6.1 State of the art deliverables

- Summarise the knowledge on and approaches to sharing technology and facilities between member states (also take into account IAEA/ERDO-WG “Steps to sharing” WS results)
- Draft Deliverable: a state of the art of the European experience in developing shared solutions for radioactive waste management

## ▶ 6.2 Case studies

- Prepare a general description of experience with sharing (one or more cases) and the lessons learned (coordinate within a country)
- Prepare a viability matrix identifying waste processing steps and streams against technologies, in order to illustrate and better communicate the work of the sub-task
- Draft Deliverable: Case studies of shared development and use of technologies and facilities

## ▶ 6.3 Assess the feasibility of European shared solutions

- Perform a gap analysis where the interests and needs of member states to share technologies and facilities is compared
- Participate comparison and assessment of possible approaches to and structures for sharing technologies and facilities
- Define needs for R&D, strategic priorities and opportunities for collaboration

# IGD-TP New vision

2040 – Towards industrialisation of radioactive waste disposal in Europe

**Safely operate**

the first geological disposal facilities in Europe

**Optimise & industrialise**

planning, construction and disposal operations

**Tailor solutions**

for disposal of the diverse waste inventories in Europe

# IGD-TP Strategic research agenda

| SRA Key topic (1-8)   | Topics   | Relevant element of the 2040 Vision            |
|---|--|--|
| Key Topic 1: Post-closure safety case and long-term performance | (SIMS) Common approach to disposability assessment   | Safely operate or Tailor solutions             |
| Key Topic 8: Strategy   | Disposal of spent research reactor fuel  | Tailor solutions or Safely operate             |
| Key Topic 8: Strategy   | Routes to facility implementation: About half of the EU Member States considers shared RWM disposal solutions. | Tailor solutions or Optimise and industrialise |



Thank you for your attention!

Any questions?